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DRINKING WATER & GW

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State of Wisconsin, Department of Natural Resources
Bureau of Drinking Water & Groundwater – DG/5
PO Box 7921, Madison, WI 53707-7921
dnr.wi.gov

**Non-Potable High Capacity Well
Approval Request**

Form 3300-295 (R 5/14)

Page 1 of 5

Notice: Prior department approval is required for the construction, reconstruction or operation of a non-potable high capacity well or system of non-potable high capacity wells in accordance with Section NR 812.09(4)(a), Wis. Adm. Code. Use this form to request an approval for installation of a well or wells on a high capacity property or to modify a well on a high capacity property. Personally identifiable information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (s.19.31-19.39, Wis. Stats.).

1. Applicant Information

Owner (Name of Person and Title) George D. Bates, Executive Director		Company GPS Creek Holding, LLC	
Street Address PO Box 1039		City Chetek	State WI
Phone Number (include area code) (815) 904.4757		Fax Number	Email Address gdbates@gpssand.com
		ZIP Code 54728	

2. Owner Information (if different than applicant)

Owner (Name of Person and Title) Howard Thalacker		Company Howard Thalacker, LLC	
Street Address 335 Phillips Street		City Chetek	State WI
Phone Number (include area code) (715) 924-4811		Fax Number	Email Address
			ZIP Code 54728

3. Operator Information

Operator, if different than owner (Name of Person and Title) Bob Archibald, Project Manager		Company GPS Creek Holding, LLC	
Street Address PO Box 1039		City Chetek	State WI
Phone Number (include area code) (630) 608-3678		Fax Number	Email Address bob@archibald.com
			ZIP Code 54728

4. Submittal Purpose

Check all that apply

- ☒ Install one or more new wells with a capacity greater than 70 gallons per minute.
- ☒ Install one or more new wells with a capacity less than 70 gallons per minute on a high capacity property.
- ☐ Replace one or more wells with a capacity greater than 70 gallons per minute.
- ☐ Replace one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- ☐ Reconstruct one or more wells with a capacity greater than 70 gallons per minute.
- ☐ Reconstruct one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- ☐ Increase pumping rate in one or more wells to a rate greater than previously approved.
- ☐ Renew a previous approval that has expired.
- ☐ Other, explain

5. Project Description

Provide a brief description of the proposed project. Include number of acres and expected crop rotation for agricultural irrigation wells. The site is a proposed frac sand mine. A single, non potable high capacity well (HC-1) is proposed for construction at the wet processing plant on the 169-acre Howard Thalacker property located in the NW 1/4, Section 24, T32N, R11W, Town of Sioux Creek, Barron County, Wisconsin. Two, potable low capacity wells are also proposed for construction at the office (LC-1) and shop (LC-2) sites on the property. The HC-1 location will meet the 1320-foot setback from Tiller Creek, located close to the north property boundary.

6. Required Enclosures

- ☒ Non-Potable High Capacity Well Application Form.
- ☒ Aerial or Plat Map with property boundaries outlined.
- ☐ Variance Request, if needed (Form 3300-210)
- ☒ \$500 application fee (See s. 281.34 (2), Wis. Stats.)
- ☒ Well Construction Reports (if available) for existing wells.

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Page 3 of 5

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Applicant Information

Application Prepared By (Name and Title)

Darrell Reed, PG

Company

SEH Inc., 10 N. Bridge St., Chippewa Falls, WI 547

Property Information

Property owner, if different than applicant (Name of Person and Title)

Howard Thalacker

Company

Howard Thalacker, LLC

County	Town	Range	<input type="radio"/> East <input checked="" type="radio"/> West	Section	High Capacity Well File No. (if applicable)
Barron	32 N	11		24	None

Yes No

☐ ☒ Is a proposed well within 1,200 feet of a landfill? Landfill location: (Township/Range/Section): T R S☐ ☒ Are you aware of any existing well installations on the high capacity property that are out of compliance with Chapter NR 812, Wisconsin Administrative Code? If yes, please attach a description of the non-complying wells.**Existing Well Information**

Enter the following information for all existing wells on the property and any contiguous property owned by the applicant.

Note: Applications are not complete unless they specify water use, pump capacities and GPS locations of existing wells.

Well Name and/or Number assigned by Owner	Water Use Code(s)	High Capacity Well Number	Pump Capacity (gpm)	Existing Well Coordinates Decimal Degrees Preferred (e.g. 45.1234, -89.1234)		WUWN or WCR Image File # (if known)
				Latitude	Longitude	
Low Cap Thalacker1	DS11		18	45.2427	-91.6811	WT276

Additional Project Information

Please include any additional relevant information regarding this project such as existing wells to be abandoned, proposed non-standard construction methods or pending ownership changes

A Plat map of the property is shown as Figure 1, "Property Plat Map".

Figure 2, "Hi Cap and Low Capacity Well Location Map" shows the wet plant layout and locations of HC-1 and LC-1 and LC-2 on the property.

Figure 3, "High and Low Capacity Well Diagram" illustrates construction features of; 1) the nearby (2.5 miles northeast) Chieftain Sand high capacity well, 2) the onsite Thalacker low capacity well (WT276), and 3) proposed construction detail of the GPS Creek Holding, High Capacity Well #1.

Figure 4, "RR Sites Map" is enclosed for identifying potential contaminant sources near the mine site property. The closest contamination site is located approximately 2.5 miles northwest of the proposed high capacity well. Several contamination sites exist in New Auburn, approximately 6.3 miles southeast.

Page 4 of 5

Annular Space Material Including Filter Pack Material, if Used:			
Material and Depth Interval:	neat cement	/ 0 ' to 180 '	neat cement / 0 ' to 60

Non-Potable High Capacity Well Approval Request

Form 3300-295 (R 5/14)

Page 4 of 5

Proposed Well Information

Enter the following information for all proposed wells on the property. If more than two wells or alternate construction, submit additional sheets.

Well Location and Usage

Well Name Assigned by Well Owner (North Well, etc.):						LO CAP WELL #2
Town/Range/Section:	¼	¼	S	T	R	SW ¼ SW ¼ 24 S 32 T 11 R W
Latitude :						45.2435533119
Longitude:						-91.682108192
Water Use Code (e.g. IR10):						PS41 Public/transient
Proposed Maximum Water Usage Per Day in Gallons:						9,600
Proposed Maximum Water Usage Per Month in Gallons:						288,000
Months of Operation (e.g. May - Sept):						March - December
Proposed Pump Type & Capacity(gpm):						submersible / 20 gpm
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):						pitless adaptor
Discharge Location (Building Pressure Tank, Pond, etc.):						building pressure tank
Distance and Direction to Nearest Public Utility Well & Well Name:						6.5 miles SE, Village of New Auburn Well 1
Distance to Other Potential Contaminant Sources:						2.6 miles to NW

Well Construction

Drilling Method(s) (Rotary, Percussion, Etc.):						Dual Rotary
Anticipated Geological Materials and Depths that are expected during drilling:						
Material and Depth Interval:	from 0 ' to		silt / sand / clay		from 0 ' to 15 '	
Material and Depth Interval:	from ' to		sandstone (Cambrian)		from 15 ' to 120 '	
Material and Depth Interval:	from ' to				from ' to '	
Material and Depth Interval:	from ' to				from ' to '	
Drillhole Diameter and Anticipated Depth Intervals:						
Diameter and Depth Interval:	from 0 ' to		10"		from 0 ' to 60' '	
Diameter and Depth Interval:	from ' to		6"		from 60 ' to 120' '	
Permanent Casing or Liner Material , If Used:						
Diameter and Wall Thickness	" dia	" thick	from 0 ' to	6 "	dia 0.375" thick	from 0 ' to 60 ' '
Diameter and Wall Thickness	" dia	" thick	from ' to	" dia	" thick	from ' to ' '
Diameter and Wall Thickness	" dia	" thick	from ' to	" dia	" thick	from ' to ' '
Casing Material and Joints (Welded, T and C, etc.):						
Weight at Depth Interval	lbs/foot	0 ' to	19 lbs/foot	0 ' to	60 ' to	
Weight at Depth Interval	lbs/foot	' to	lbs/foot	' to		
Screen Material and Casing to Screen Joint (Welded, T and C, K Packer, etc.)						
Screen Slot Size in Inches and Depth Interval or N/A if none:	from ' to		na		from ' to ' '	
Annular Space Material Including Filter Pack Material, If Used:						
Material and Depth Interval:	neat cement		/ 0 ' to 180 ' '		neat cement / 0 ' to 60 ' '	

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Page 5 of 5

Applicant Signature

Name – Print

Robert Archibald

Select One:

☐ Owner

☒ Agent of Owner

Signature



Company

GPS Creek Holding, LLC

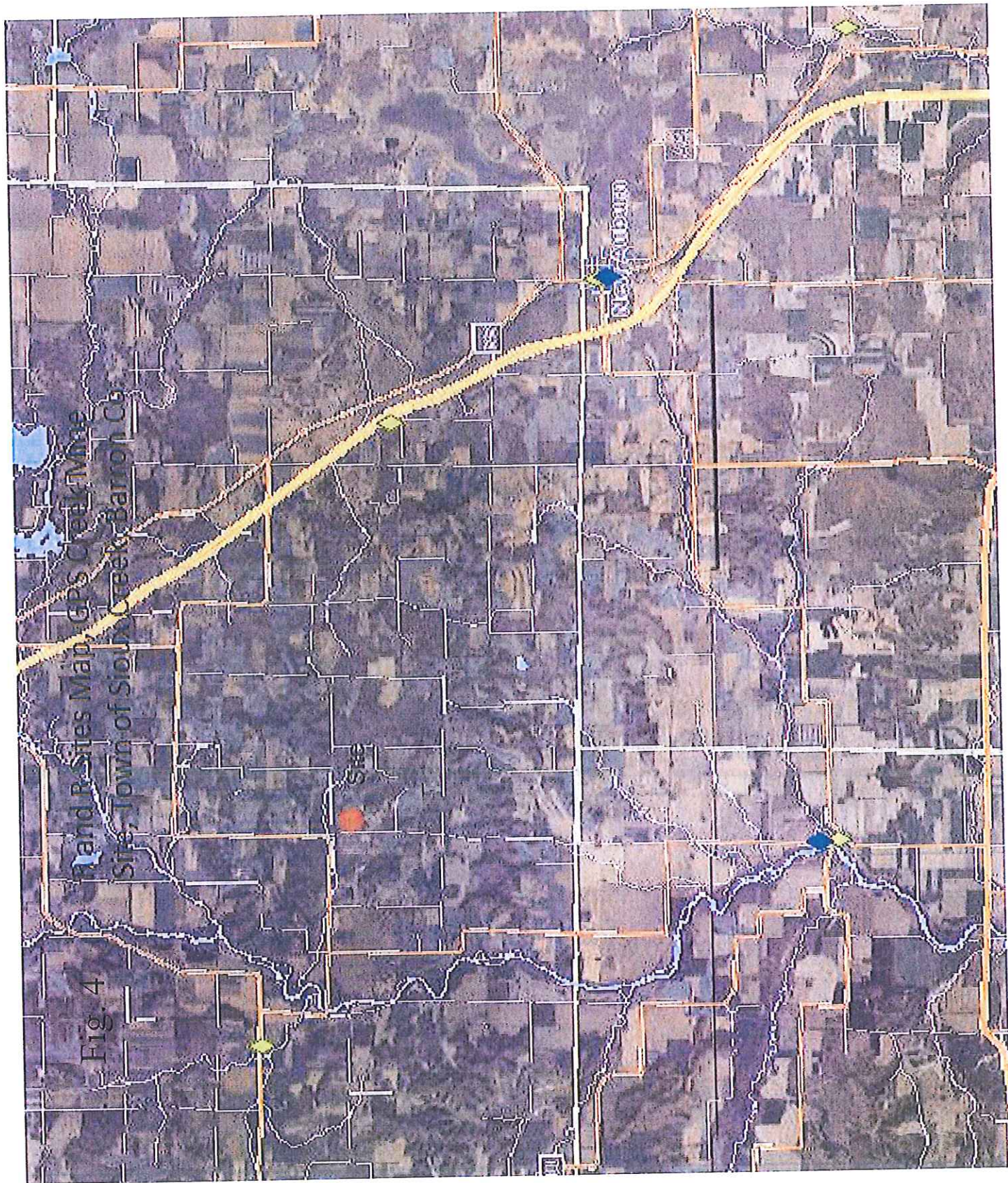
Date

7.15.14

By signing this form, the person certifies that to the best of his or her knowledge, all information in the application is accurate and correct. Unsigned or incomplete applications will not be approved

Fig. 4

A and B Sites Map, GPS Creek Mine
Site, Town of Sioux Creek, Barron Co.



WISCONSIN UNIQUE WELL NUMBER
Source: WELL CONSTRUCTION WT276

Property Owner **THALACKER, HOWARD** Telephone Number **- -**

Mailing Address **335 PHILLIPS ST**

City **CHETEK** State **WI** Zip Code **54728**

County of Well Location **NO** Co Well Permit No **W** Well Completion Date **September 20, 2011**

State of Wi-Private Water Systems-DG/2 Form 3300-77A
 Department Of Natural Resources, Box 7921 (Rev 02/02)bw
 Madison, WI 53707

Depth **90** FT

1. Well Location

T=Town C=City V=Village
T of SIOUX CREEK Fire#

Street Address or Road Name and Number
23RD ST

Subdivision Name Lot# Block #

Well Constructor **KRAMER WELL DRILLING INC** License # **45** Facility ID (Public)

Address **N3055 COUNTY W** Public Well Plan Approval#

City **WEYERHAEUSER** State **WI** Zip Code **54895** Date Of Approval

Hicap Permanent Well # Common Well # Specific Capacity **3** gpm/ft

Gov't Lot or **NW** 1/4 of **SW** 1/4 of

Section **24** T **32** N R **11** W

2. Well Type 1 (See item 12 below)

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?

3. Well Serves # of homes and or LIVESTOCK

P (eg: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? **N** Property? **N**

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain? **N**

Distance in feet from well to nearest: (including proposed)

1. Landfill	9. Downspout/ Yard Hydrant	17. Wastewater Sump
2. Building Overhang	10. Privy	18. Paved Animal Barn Pen
3. 1=Septic 2= Holding Tank	11. Foundation Drain to Clearwater	53 19. Animal Yard or Shelter
4. Sewage Absorption Unit	12. Foundation Drain to Sewer	20. Silo
5. Nonconforming Pit	13. Building Drain	21. Barn Gutter
6. Buried Home Heating Oil Tank	14. Building Sewer 1=Cast Iron or Plastic 2=Other	22. Manure Pipe 1=Gravity 2=Pressure
7. Buried Petroleum Tank	15. Collector Sewer: ___ units ___ in. diam.	23. Other manure Storage
8. 1=Shoreline 2= Swimming Pool	16. Clearwater Sump	24. Ditch
		25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

From	To	Upper Enlarged Drillhole	Lower Open Bedrock
Dia.(in.)	(ft)	(ft)	
9.0	surface	35	
6.0	35	90	

-- 1. Rotary - Mud Circulation -----

-- 2. Rotary - Air ----- X

X -- 3. Rotary - Air and Foam -----

-- 4. Drill-Through Casing Hammer -----

-- 5. Reverse Rotary -----

-- 6. Cable-tool Bit ___ n. dia -----

-- 7. Temp. Outer Casing ___ in. dia. ___ depth ft. Removed? -----

Other

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
1	TOP SOIL	0	1
TVZ	NONCAVING BR GRAVEL & CLAY	1	6
YVN	NON CAVING YELLOW SANDSTONE	6	90

6. Casing Liner Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6.0	P.E. IPSCO STEEL 19LBS/FT ASTM A53	surface	35

Dia.(in.) Screen type, material & slot size From To

9. Static Water Level

50.0 feet **B** ground surface
 A=Above B=Below

10. Pump Test

Pumping level **56.0** ft. below surface

Pumping at **18.0** GP M **1.0** Hrs

11. Well Is: 25 in. A Grade
 A=Above B=Below

Developed? **Y**

Disinfected? **Y**

Capped? **Y**

7. Grout or Other Sealing Material

Method	From (ft.)	To (ft.)	# Sacks Cement
TRIMIE PRESSURE			
Kind of Sealing Material			
NEAT CEMENT	surface	35.0	7 S

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller **GJ** Date Signed **9/26/11**

Initials of Drill Rig Operator (Mandatory unless same as above) **AH** Date Signed **9/26/11**